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DEC 14 1998

U.S. GOVERNMENT
MEMORANDUM

Yazoo National Wildlife Refuge

DATE: December 10, 1998

FROM: Supervisory Wildlife Mgmt. Biologist, FWS, Jackson, MS

SUBJECT: Annual Mid-Winter Waterfowl Survey - January 4-8, 1999

TO: Robert Helm, LA
Fred Roetker, LA
Don Brazil, MS
Danny Hartley, COE, MS
George Chandler, LA
David Linden, MS
John Leslie, LA
Noxubee NWR, MS
MS Wetlands Management District, MS

This is to request your help in conducting the annual waterfowl survey commencing January 4 with completion as soon thereafter as possible - preferably within three days. BEGINNING THIS YEAR, PLEASE COUNT ALL SANDHILL CRANES OBSERVED AND RECORD THEM IN YOUR SUMMARY. Enclosed is the ZONE SUMMARY form indicating your area(s) of responsibility by Zone and Unit(s) - (DO NOT use other versions of this form such as a field form). Please return the results of your survey to me as soon as it is completed (US Fish & Wildlife Service, 6578 Dogwood View Parkway, Suite B, Jackson, Mississippi 39213).

The object is to estimate the distribution and habitat utilization of waterfowl. Simultaneous surveys will be made all over the nation. Your part consists of recording birds seen in the area assigned to you on the dates specified herein. In the columns on the survey form, record numbers of waterfowl actually observed, describing them by species when possible. If you are uncertain as to species, include them in the "Unidentified" space.

Please complete the enclosed SUMMARY OF WINTER WATERFOWL SURVEY form thoroughly. Note the number of personnel participating, number of aircraft used, miles flown, cars used, miles driven, boats used, and miles traveled. Also, note weather conditions at the time you ran the survey and any unusual concentrations of waterfowl. Don't forget to enter the date of your survey at the top of the form.

Thank you for your valuable help in this important undertaking.

Enclosures



MIDWINTER WATERFOWL SURVEY

Page 1 of 2MississippiZONE: I
(continued)DATES 1/6 TO 1/6, 1999

Survey Unit/Area	35	36	39	40	45	46
Observer(s)	Linden (Yazoo)	Brazil	Brazil	Brazil	Linden	Linden
Mallard					5773	
Black duck					2	
Mottled duck					874	
Gadwall					420	
Wigeon					477	
G-W teal					-	
B-W teal					-	
Cinn. teal					4	
Shoveler					-	
Pintail					530	
Wood duck					-	
Whistling duck						
Subtotal-Dabblers					8080	
Redhead					-	
Canvasback					-	
Scaup					-	
Ringneck					-	
Goldeneye					-	
Bufflehead					-	
Ruddy duck						
Subtotal-Divers					0	
Elder					-	
Scooter					-	
Oldsquaw					-	
Harlequin						
Subtotal-Seaducks					0	
Mergansers					2	
Unidentified ducks					-	
TOTAL DUCKS					8082	
Brant					-	
Snow goose					-	
Blue goose					-	
Ross' goose					-	
White-fronted goose					-	
Canada goose					-	
TOTAL GEESE					0	
Tundra swan					-	
Trumpeter swan					-	
Mute swan					-	
TOTAL SWANS					0	
COOT					47	
SANDHILL CRANE					-	
GRAND TOTAL					8129	

ZONE SUMMARY
MIDWINTER WATERFOWL SURVEY

Page 2 of 2

Mississippi

ZONE: 1 (continued)

DATES 1/6

TO 1/6, 1999

Survey Unit/Area	(MOB) 47	(MAB) 48	(TRIB) 49	51		Grand Total
Observer(s)	Linden	Linden	Linden	Gard		
Mallard	7109					
Black duck	2					
Mottled duck						
Gadwall	1361					
Wigeon	16					
G-W teal	549					
B-W teal	-					
Cinn. teal	-					
Shoveler	573					
Pintail	4					
Wood duck	18					
Whistling duck	-					
Subtotal-Dabblers	9632					
Redhead	-					
Canvasback	31					
Scaup	153					
Ringneck	3					
Goldeneye	-					
Bufflehead	-					
Ruddy duck	50					
Subtotal-Divers	237					
Eider	-					
Scooter	-					
Oldsquaw	-					
Harlequin	-					
Subtotal-Seaducks	-					
Mergansers	432					
Unidentified ducks	200					
TOTAL DUCKS	10,501					
Brant	-					
Snow goose	-					
Blue goose	-					
Ross' goose	-					
White-fronted goose	-					
Canada goose (Giant)	118					
TOTAL GEESE	118					
Tundra swan	-					
Trumpeter swan	-					
Mute swan	-					
TOTAL SWANS	-					
COOT	262					
SANDHILL CRANE	-					
GRAND TOTAL	10,881					

SUMMARY OF WINTER WATERFOWL SURVEY

State: MSDates 1/6 to 1/6, 1999Summary and Evaluation of Waterfowl Survey:Total Survey Units 3 (Hillside Morgan); Units Surveyed 2 (Hillside Morgan)Narrative: (Describe weather, flooding, drought, delays and other factors affecting the survey.)weather: just below freezing to mid-40's; much of shallow water frozen the 2-3 days priorwater levels

: normal

cloud cover: sunny & clear, little or no cloudsUnusual Concentrations: nonePARTICIPATION SUMMARY# HLD- 31.0 miles
MOB- 14.5 miles

Organization	No. Personnel Participating	Aircraft			Cars		Boats	
		No.	Hrs. Flown	Miles Flown	No. used	Miles driven	No. used	Miles traveled
<u>Service</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>45.5*</u>	<u>0</u>	<u>0</u>
<u>State</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>Other</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>TOTALS</u>	<u>3</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>45.5*</u>	<u>0</u>	<u>0</u>

David A. Vail
Signature

midwinter waterfowl Survey - 1/6/99

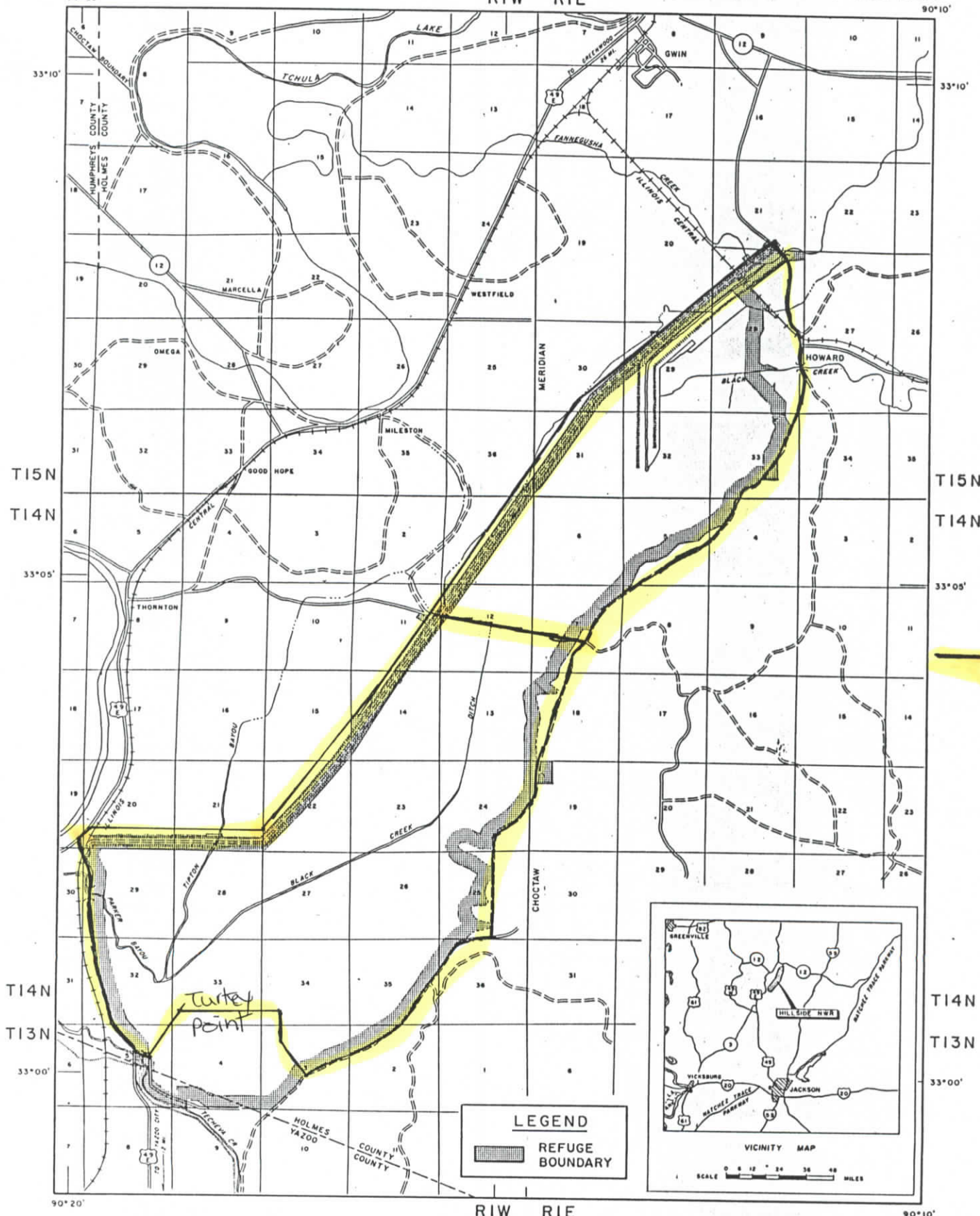
HILLSIDE NATIONAL WILDLIFE REFUGE

HOLMES AND YAZOO COUNTIES, MISSISSIPPI

UNITED STATES
DEPARTMENT OF THE INTERIOR
90°20'

UNITED STATES
FISH AND WILDLIFE SERVICE
90°10'

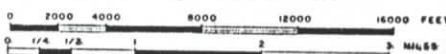
RIW RIE



COMPILED IN THE DIVISION OF REALTY
FROM SURVEYS BY U.S.G.S., CORPS OF
ENGINEERS, AND AERIAL PHOTOGRAPHS

ATLANTA, GEORGIA JANUARY, 1975

RIW RIE
CHOCTAW MERIDIAN



MEAN
DECLINATION
1975

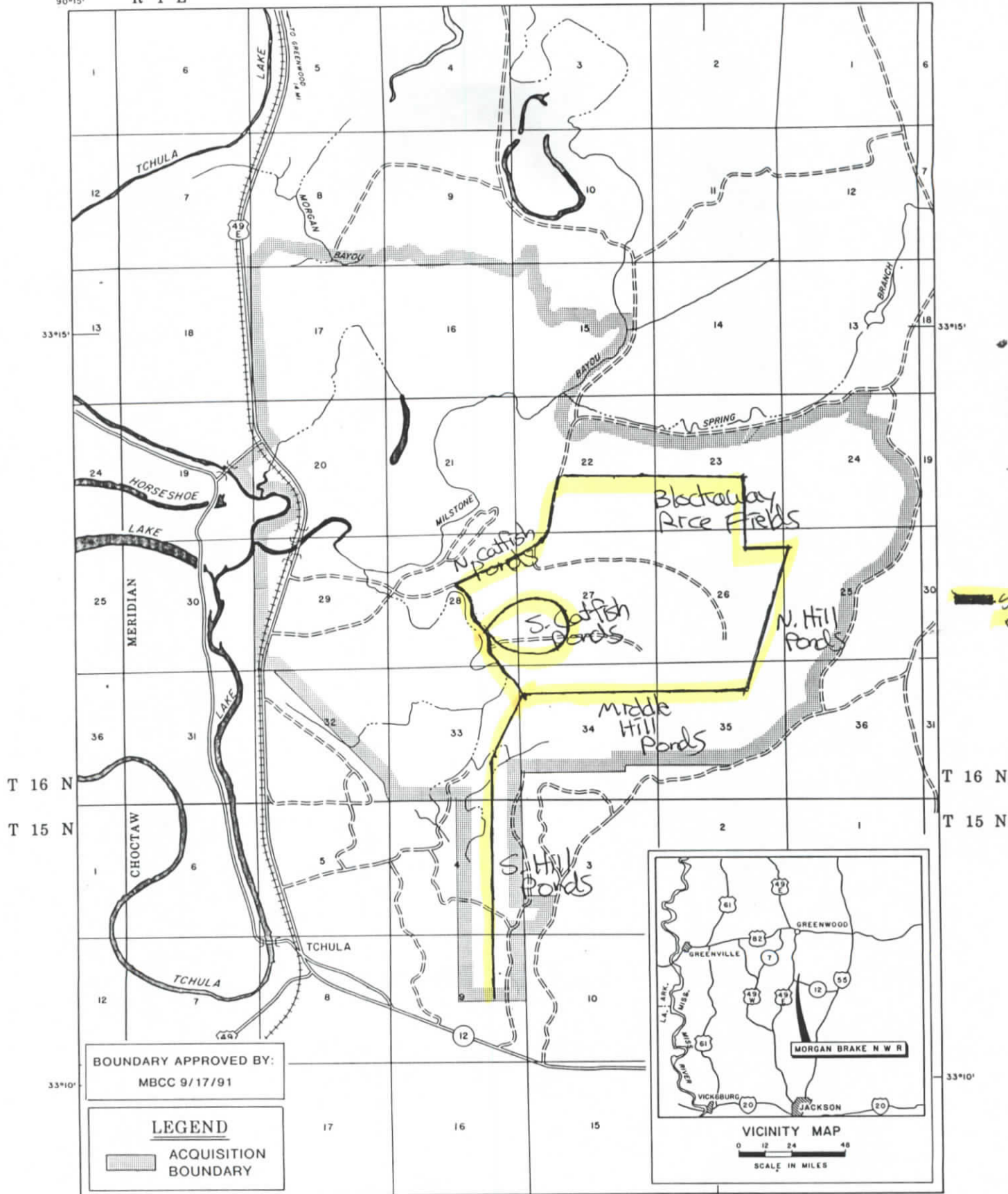
4R-MISS-901-404

Mrdwinter Waterfowl Survey - 1/6/99
MORGAN BRAKE NATIONAL WILDLIFE REFUGE

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 90°15' R 1 E

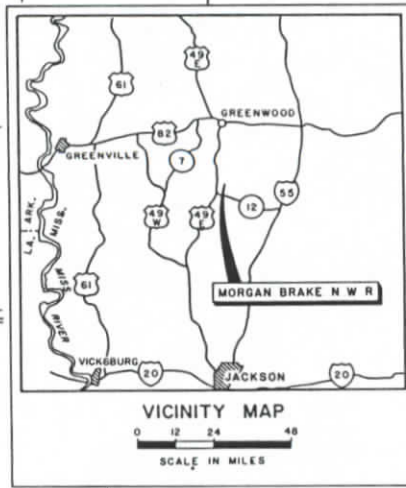
HOLMES COUNTY, MISSISSIPPI

UNITED STATES
 FISH AND WILDLIFE SERVICE
 R 1 E R 2 E



BOUNDARY APPROVED BY:
 MBCC 9/17/91

LEGEND
 ACQUISITION BOUNDARY



90°15' R 1 E
 COMPILED IN THE DIVISION OF REALTY
 FROM SURVEYS BY U.S.G.S.

CHOCTAW MERIDIAN



ATLANTA, GEORGIA JULY, 1977

90°10' R 1 E R 2 E
 TRUE NORTH
 MAGNETIC N. 3°36' E
 MEAN DECLINATION 1977

4R MISS 925 404